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(54) OPTICAL FIBER COATED WITH METALLIC PIPE
AND ITS PRODUCTION
(57) Abstract:

PURPOSE: To improve the tensile strength, compression strength and shearing strength of an optical fiber sharply and to attain complex bending work too by coating the optical fiber with a metallic pipe.

CONSTITUTION: The optical fiber 1 is used as an optical waveguide at the time of optical communication. The glass-made optical fiber 1 is coated especially with a casing 2 such as vinyl, nylon or urethane having elasticity to protect the glass-made optical fiber 1 from the direct application of external shock. A thin pipe is generally used as an anticorrosive metallic pipe 3 made of stainless, titanium or aluminum alloy and the metallic pipe 3 loosely engaged with the optical fiber 1 is adhered with the optical fiber 1 by inserting the optical fiber into the inner diameter of the pipe 3 and drawing out and stopping the pipe 3.

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